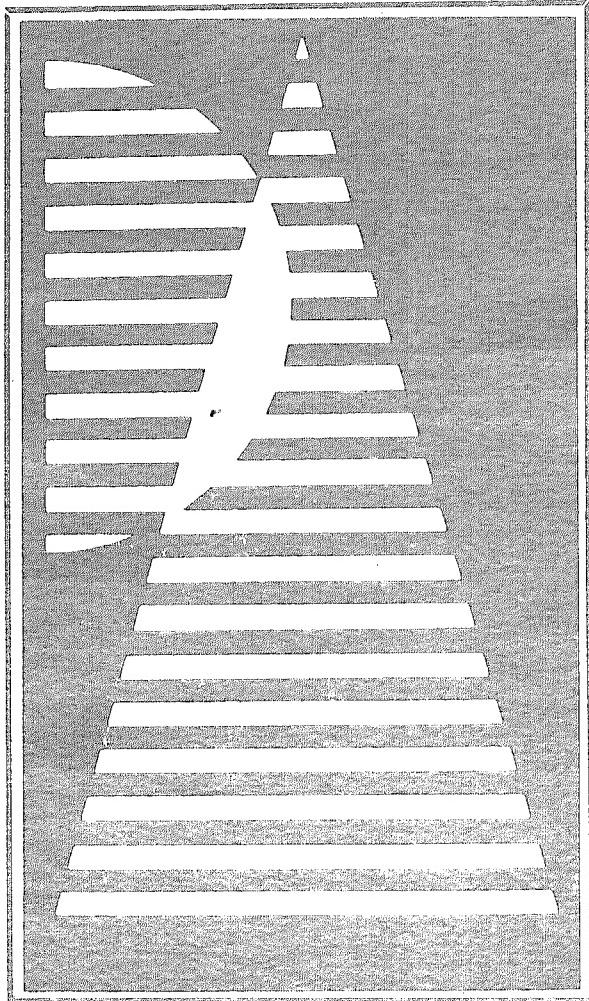


SBIR

Pre-Solicitation Announcement



This issue contains information on SBIR
Solicitations of the following Federal
participating agencies.

National Science Foundation

U.S. Department of Transportation

**U.S. Department of Health &
Human Services**

**National Aeronautics and
Space Administration**

MARCH 1989

SBIR/PSA

NOTICE TO READERS OF PSA

For information on upcoming
Federally sponsored and
co-sponsored SBIR conferences,
please see Page 34.

TABLE OF CONTENTS

I.	Master Schedule of SBIR Solicitations for FY 1989	<u>1</u>
II.	The SBIR Program	<u>2</u>
III.	The Three Phases of SBIR	<u>2</u>
IV.	Purpose of the PSA	<u>3</u>
V.	Eligibility Requirements to Participate in SBIR	<u>3</u>
VI.	SBIR Solicitations -- Proposals -- Awards	<u>4</u>
VII.	SBA/SBIR Mailing List	<u>5</u>
VIII.	Available SBIR Solicitation Topics	<u>6</u>
	<u>U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES</u>	<u>6</u>
	<u>U. S. DEPARTMENT OF TRANSPORTATION</u>	<u>20</u>
	<u>NATIONAL AERONAUTICS AND SPACE ADMINISTRATION</u>	<u>24</u>
	<u>NATIONAL SCIENCE FOUNDATION</u>	<u>26</u>
IX.	Listing of SBA Regional Offices for Requesting Copies of <u>Proposal Preparation for SBIR</u>	<u>28</u>
X.	SBA's Procurement Automated Source System (PASS)	<u>30</u>
XI.	Listing of Representatives of the Federal Agencies Participating in the SBIR Program	<u>31</u>
XII.	Listing of Upcoming SBIR Conferences and Seminars	<u>34</u>

I. MASTER SCHEDULE OF SBIR SOLICITATIONS
FISCAL YEAR 1989

<u>AGENCY</u>	<u>RELEASE DATE</u>	<u>CLOSING DATE</u>
Department of Agriculture	July 1, 1989	September 1, 1989
Department of Commerce	October 15, 1988	January 15, 1989
Department of Defense	October 1, 1988	January 6, 1989
Department of Education	January 13, 1989	March 17, 1989
Department of Energy	November 18, 1988	February 16, 1989
Department of Health & Human Services:		
1. Public Health Service Health Care Finance Administration (PHS/HCFA)	October 1, 1988	December 9, 1988
2. Public Health Service (PHS)	January 15, 1989	April 15, 1989 August 15, 1989 December 15, 1989
Department of Transportation	February 13, 1989	May 1, 1989
Environmental Protection Agency	November 10, 1988	January 10, 1989
National Aeronautics & Space Administration	April 14, 1989	June 16, 1989 *
National Science Foundation	April 3, 1989	June 19, 1989
Nuclear Regulatory Commission	January 13, 1989	March 27, 1989

NOTE: The above dates may be subject to change by the participating agencies due to administrative reasons.

* Change from dates cited in December 1988 PSA.

III. THE SBIR PROGRAM

The Small Business Innovation Research Program began in 1982 with the enactment of the Small Business Innovation Development Act.

On October 6, 1986, legislation was signed which reauthorized the program through September 30, 1993.

The Act required agencies of the Federal Government with extramural budgets for research or R&D in excess of \$100 million to establish SBIR Programs. Funding for the program is derived from fixed percentages of each participant agency's R&D budget.

There are presently 11 Federal agencies participating in SBIR. They are listed on page 1.

Since the beginning of this program, there have been approximately 12,000 SBIR awards totalling \$1.3 billion.

III. THE THREE PHASES OF THE SBIR PROGRAM

SBIR is a highly competitive award system consisting of the following three phases:

PHASE I - Is to evaluate the scientific technical merit and feasibility of an idea. Awards of up to \$50,000 with a period of performance normally not to exceed six months are involved.

ONLY PHASE I Awardees ARE ELIGIBLE FOR CONSIDERATION OF AWARD OF PHASE II.

PHASE II - Is to expand on the results of and further pursue the development of Phase I. Awards of \$500,000 or less with a period of performance normally not to exceed two years are involved.

PHASE III - Is for the commercialization of the results of Phase II and requires the use of private or non-SBIR Federal funding. No SBIR funds may be utilized in this Phase.

IV. PURPOSE OF THE SBIR PRE-SOLICITATION ANNOUNCEMENT (PSA)

The PSA provides small business firms with advance information on upcoming SBIR solicitations about to be released by Federal agencies participating in the Program.

SBA usually publishes PSA's quarterly -- in March, June, September and December of each year.

PSA's contain data on all of the SBIR solicitations scheduled for release during the following 3-month period. For example, a PSA published in December would include details on SBIR solicitations to be released in January, February and March.

They also may contain information on previously announced SBIR solicitations that are still open.

The listing of topics available begins on page 6. As a potential SBIR offeror, if you should find a topic of interest to your firm, please contact the Federal agency designated for that topic to obtain a copy of the applicable SBIR solicitation.

SBA does not distribute copies of SBIR solicitations.

V. ELIGIBILITY REQUIREMENTS TO PARTICIPATE IN THE SBIR PROGRAM

Small Business. A small business concern is one that, at the time of award of SBIR Phase I and Phase II funding agreements, meets the following criteria.

1. Is independently owned and operated, is not dominant in the field of operation in which it is proposing, has its principal place of business located in the United States and is organized for profit;
2. Is at least 51 percent owned, or in the case of a publicly owned business, at least 51 percent of its voting stock is owned by United States citizens or lawfully admitted permanent resident aliens;
3. Has, including its affiliates, a number of employees not exceeding 500, and meets the other regulatory requirements found in 13 CFR Part 121. Business concerns, other than investment companies licensed, or state development companies qualifying under the Small Business Investment Act of 1958, 15 U.S.C. 661, et seq., are affiliates of one another when either

V. ELIGIBILITY REQUIREMENTS TO PARTICIPATE
IN THE SBIR PROGRAM
(continued)

directly or indirectly (A) one concern controls or has the power to control the other; or (B) a third party or parties controls or has the power to control both. Control can be exercised through common ownership, common management, and contractual relationships. The term "affiliates" is defined in greater detail in 13 CFR 121. The term "number of employees" is also defined in 13 CFR 121. Business concerns include, but are not limited to, any individual, partnership, corporation, joint venture, association or cooperative.

VI. SBIR PROGRAM SOLICITATIONS - PROPOSALS - AWARDS

The simplified SBIR Program Solicitation process provides small business concerns with an excellent opportunity to propose innovative ideas that meet specific Research and R&D needs of the Federal Government while potentially opening the door to future commercialization.

SBIR Program Solicitations contain detailed information on:

Research Topics

Instructions for the preparation of SBIR proposals

Release and closing dates

To obtain sufficient information on which to submit an SBIR proposal, you need to contact the designated Federal agency and obtain a copy of the applicable solicitation. Copies of these solicitations are not available until their stated release date.

SBIR Phase I Proposals are limited to (25) pages.

Under the SBIR Program, proposals are evaluated competitively by the participating Federal agencies to determine the best innovative solutions to the designated technical topics.

SBIR Awards are made on a competitive basis. The selection criteria for this competitive process are further explained in the SBIR Program Solicitations released by each of the Federal agencies participating in the program.

Information on these Federal contact points is contained in each issue of the SBIR Pre-Solicitation Announcement.

VII. The SBA/SBIR MAILING LIST

There is no single mailing list for all SBIR Program solicitations.

To obtain a copy of an SBIR solicitation, a small business concern needs to contact the designated Federal agency. The SBA Pre-Solicitation Announcement cites the appropriate Federal contact points where copies of SBIR solicitations may be requested.

The SBA Office of Innovation, Research and Technology maintains a computerized listing of firms that are sent copies of the SBIR Pre-Solicitation Announcement on a regular basis. If you wish to be added to this list, please contact us at the following address:

Office of Innovation, Research
and Technology
U.S. Small Business Administration
1441 L Street, N. W., Room 500
Washington, D. C. 20416
(202) 653-6458

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

U. S. DEPARTMENT OF HEALTH & HUMAN SERVICES

FY 1989 SBIR PROGRAM SOLICITATION

(Repeated from December 1988 Issue of PSA)

The RELEASE DATE for this SBIR Program
Solicitation Is:

January 16, 1989

The CLOSING DATES for the receipt of
PHASE I proposals are:

April 15, 1989

August 15, 1989

December 15, 1989

Request for copies of this solicitation are available from:

PHS SBIR Solicitation Office
3202 Monroe Street
Suite 300
Rockville, MD 20852
(301) 231-6378

Questions on general policies, procedures and administration of
the SBIR Program should be directed to:

Ms. Lily O. Engstrom
Director, Office of Special Programs
and Initiatives
National Institutes of Health
Building 31, Room 9B54
Bethesda, MD 20205
(301) 496-1968

The Public Health Service hopes to make approximately 300 awards
in this Phase I cycle. Awards will be in average amounts of
\$50,000 each.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR
PROGRAM SOLICITATION FOLLOW:

NATIONAL INSTITUTES OF HEALTH

National Institute on Aging (NIA)

Biomedical and Clinical Research on Aging

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

U. S. DEPARTMENT OF HEALTH & HUMAN SERVICES

National Institute on Aging (NIA) (cont'd)

Behavioral and Social Research Program

Neuroscience and Neuropsychology of Aging

Contact:

Dr. Miriam F. Kelty
Building 31, Room 5C-02
Bethesda, MD 20892
(301) 496-9322

National Institute of Allergy and Infectious Diseases (NIAID)

Allergy, Immunology, and Transplantation

Microbiology and Infectious Diseases

Acquired Immunodeficiency Syndrome

Contact:

Dr. John W. Diggs
Westwood Building, Room 703
Bethesda, MD 20892
(301) 496-7291

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

Arthritis and Musculoskeletal and Skin Diseases

Contact:

Dr. Steve Hausman
Westwood Building, Room 403
Bethesda, MD 20892
(301) 496-7495

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

Diabetes, Endocrinology and Metabolic Diseases

Digestive Diseases and Nutrition

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (cont'd)

Kidney, Urologic and Hematologic Diseases

Contact:

Dr. John Garthune
Westwood Building, Room 637
Bethesda, MD 20892
(301) 496-7793

National Cancer Institute (NCI)

Cancer Biology and Diagnosis

Contact:

Ms. Brenda Underwood
6120 Executive Plaza Boulevard
Executive Plaza South - Room 642B
Rockville, MD 20892
(301) 496-7028

Cancer Etiology and Prevention

Contact:

Dr. John A. Cooper
6130 Executive Plaza Boulevard
Executive Plaza North - Room 535
Rockville, MD 20892
(301) 496-1882

Cancer Treatment

Contact:

Dr. Mace Rothenberg
Building 31, Room 3A49
Bethesda, MD 20892
(301) 496-6711

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

National Cancer Institute (NCI) (cont'd)

Cancer Prevention and Control

Contact:

Dr. James Callahan
Building 31, Room 10A49
Bethesda, MD 20892
(301) 496-1071

National Institute of Child Health and Human Development (NICHD)

Population Research

Research for Mothers and Children

Contact:

Ms. Hildegard Topper
Building 31, Room 2A03
Bethesda, MD 20892
(301) 496-0104

National Institute of Dental Research (NIDR)

Caries

Periodontal Diseases

Craniofacial Anomalies

Restorative Materials

Pain Control and Behavioral Studies

Oral Ulcerative Diseases

Contact:

Dr. Thomas Valega
Westwood Building, Room 510
Bethesda, MD 20892
(301) 496-6324

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

National Institute of Environmental Health Sciences (NIEHS)

Test Methods for Assessing the Biological Effects of Environmental Agents

Specialized Products for Use in Toxicology Studies

Development of Products/Devices for Measuring Exposure to Toxic Agents

Development of Alternative Designs/Methods for Toxicity/Carcinogenicity Assessment

Contact:

Dr. Michael J. Galvin, Jr.
P. O. Box 12233
Research Triangle, NC 27709
(919) 541-7825

National Eye Institute (NEI)

Retinal and Choroidal Diseases

Corneal Diseases

Cataract

Glaucoma

Strabismus, Amblyopia, and Visual Processing

Low Vision and Rehabilitation

Contact:

Dr. Ralph Helmsen
Building 31, Room 6A48
Bethesda, MD 20892
(301) 496-5884

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

National Institute of General Medical Sciences (NIGMS)

Cellular and Molecular Basis of Disease

Genetics

Pharmacological Sciences

Physiology and Biomedical Engineering

Contact:

Dr. David A. Wolff
Westwood Building, Room 953
Bethesda, MD 20892
(301) 496-7061

National Heart, Lung and Blood Institute (NHLBI)

Heart and Vascular Diseases

Lung Diseases

Blood Diseases and Resources

Contact:

Dr. Henry Roscoe
Westwood Building, Room 7A17
Bethesda, MD 20892
(301) 496-7225

National Institute of Neurological and Communicative Disorders and Stroke (NINCDS)

Communicative Disorders

Fundamental Neurosciences

Stroke and Trauma

Convulsive, Developmental and Neuromuscular Disorders

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

National Institute of Neurological and Communicative Disorders
and Stroke (NINCDS) (cont'd)

Demyelinating, Atrophic and Dementing Disorders

Contact:

Mr. Edward Donohue
Federal Building, Room 1016
Bethesda, MD 20892
(301) 496-4188

Division of Research Resources (DRR)

Research and Development in Instrumentation and Specialized Technologies for Biomedical Research

Research in Laboratory Animal Sciences

Development of Biomedical Research Methods Employing Lower Organisms, Tissue/Cells in Culture or Mathematical and Computer Simulations

Development of Systems (Non-Software) or Devices for Patient Research Monitoring of Physiologic or Biochemical Parameters

Contact:

Dr. James O'Donnell
Building 31, Room 5B03
Bethesda, MD 20892
(301) 496-6023

National Center for Nursing Research (NCNR)

Development and Testing of Technology that Enhances the Effectiveness of Nursing Care Delivery

Development of Information Systems Software for Managerial and Clinical Nursing Services

Development of Programs to Delay or Deter Onset of Smoking in Nursing Students

Contact:

Dr. Janet Heinrich
Building 31, Room B1C02
Bethesda, MD 20892
(301) 496-0526

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION (ADAMHA)

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

Pharmacology

Identification

Treatment Compliance

Prevention

Basic Research Tools

Contact:

Dr. Laurie Foudin
Parklawn Building, Room 14C-20
Rockville, MD 20857
(301) 443-4223

National Institute on Drug Abuse (NIDA)

Quantitative Analysis for Drugs in Body Fluids

Opioid Peptides

Performance and Drug Concentrations of Abused Substances

Perinatal Effects of Abused Substances

Methodological Study of Epidemiology of Drug Abuse

Drug Use in the Workplace

Training in Drug Abuse Treatment Techniques

Clinical Evaluation Instruments and Technology

Drug Delivery Systems

Prevention Research

Etiological Research

Prevention Program Assessment Methods

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION (ADAMHA)

National Institute on Drug Abuse (NIDA) (cont'd)

Employee Program Assessment Methods

Technology to Address the Problem of AIDS in IV Drug Users

Special Needs Populations

Contact:

Ms. Jacqueline P. Downing
Parklawn Building, Room 11A-33
Rockville, MD 20857
(301) 443-1056

National Institute of Mental Health (NIMH)

Instrumentation for Basic and Clinical Research

Brain and Body Imaging Techniques

Neuromolecular Biology and Chemistry

Pharmacology

Systems Development

Behavioral Science Research and Development

Health and Behavior

Contact:

Mr. James Moynihan
Parklawn Building, Room 11-95
Rockville, MD 20857
(301) 443-3107

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

CENTERS FOR DISEASE CONTROL (CDC)

National Institute for Occupational Safety and Health (NIOSH)

Prevent or Contain Hazardous Workplace Emissions at their Source

Remove Emissions From the Pathway Between the Source and the Worker

Control Exposure with Barriers Between the Worker and the Hazardous Work Environment

Evaluate Behavioral, Motivational, and Ergonomic Considerations

Develop Control Monitoring Instruments and Techniques

Develop Mathematical Dispersion Models to Predict Concentrations of Hazardous Chemicals

Investigate Fundamental Dust Generations Mechanisms Involved In the Flow of Powdered and Granulated Solid Materials

Develop System Safety Techniques for Maintenance and Start-Up/Shut-Down of Machine Operations

Improve Design of Industrial Hand Tools to Prevent Musculoskeletal Impairment

Design and Develop New and Innovative Respiratory Protective Devices

Develop End-of-Service-Life Indicators for Sorbents of Air Purifying Respirators

Develop Test Techniques and Models to Predict General Respirator Performance

Investigate Methods to Increase Effective Protection Factors in the Field Under Actual Workplace Conditions

Develop Methods for Determining Sorbent and Filter Efficiencies

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

CENTERS FOR DISEASE CONTROL (CDC)

National Institute for Occupational Safety and Health (NIOSH)
(cont'd)

Develop Low-Resistance, High-Efficiency Particulate
Filtration Methods

Contact:

Dr. Roy Fleming
Building 1, Room 3053
M. S. D30
1600 Clifton Road, N. E.
Atlanta, GA 30333
(404) 639-3343

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

FOOD AND DRUG ADMINISTRATION (FDA)

Investigate Medical Applications of Small Angle X-Ray Scattering (Ray Scattering), Specifically Determining the Possibility of Tissue Differentiation Using this Effect

Develop an Instrument for Non-Contact Measurement of Hermetic Seal Integrity of Implantable Electronic Packages Using Correlation and Holographic Techniques

Develop an Optical Non-Destructive Method for Rapid Detection and Measurement of Condom Defects Introduced in Manufacturing

Determine the Accuracy and Reproducibility of Serum Cholesterol Levels as Measured in Different Laboratory Facilities

Survey Selected Departments in Accredited Schools of Public Health for Current Topics of Approved Masters and Doctoral Research Theses Relevant to Medical Device Safety and Effectiveness

Determine the Efficiency of Different Hemodialysis Machines Given the use of Identical Dialyzers, as Measured by Established Performance Standards

Measure Potentially Harmful Tissue By-Products in the Laser Plume/Debris During Clinical Applications

Examine Leakage of Viruses Through Examination and Surgical Gloves

Provide Statistical Support to Evaluate the Effects of Disinfectants on the Performance of Actual Use Hemodialyzers

Provide Statistical Support in the Collaboration Studies with CDRH Components in the Study of Toxic Effects of Materials Used in Medical Devices

Examine Inactivation Kinetics (rate) and extent of Different HIV Strains to Different Disinfectants of Relevance to the Medical Devices

Evaluation of Cavitation Around Prosthetic Heart Valves to Adequately Determine Potential Cavitation Damage to Mechanical Heart Valves

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

FOOD AND DRUG ADMINISTRATION (FDA) (cont'd)

Investigate the Porosity of Prophylactic Membranes

Evaluate Non-Dedicated Blood Gas Controls and Reagents for Blood Gas Instrumentation

Developments of Systems Using Microorganisms to Understand Detoxification Pathways In Animals, Soil, and/or Water

Computer Systems for Control of Feeding, Animal Handling, and Pathology

Definition and Modeling of Metabolic Pathways

Development of Techniques to Alter those Metabolic Pathways to Modulate Toxicity

Computer Systems Development to Model Metabolic Pathways of Specific Toxic Chemicals

Computer Modeling Systems to Predict Biochemical Interactions In Human Systems

A Seriological Marker Test for Identifying Hepatitis Type Non A or Non B Antigens

Development of New Analytical Methodology for Conducting Bioavailability and Bioequivalence Drug Studies

New Methods for Assessing the Safety and Efficacy of Drugs

Evaluation of Post-Marketing Surveillance of Drugs

Development of Analytical Methods and Animal Models for Animal Drugs

Contact:

Ms. Olla Hopkins
Division of Contracts and Grants Management
Office of Management and Operations
Food and Drug Administration
Park Building, Room 320
5600 Fishers Lane
Rockville, MD 20857
(301) 443-6170

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

DEPARTMENT OF HEALTH & HUMAN SERVICES (HHS)

OFFICE OF ADOLESCENT PREGNANCY PROGRAMS (OAPP)

Development of Materials to Help Teens Consider Adoption as Positive Option

Development of Materials that Promote Abstinence from Adolescent Premarital Sexual Activity and Uphold Sexuality in the Context of Marriage

Development of Innovative Research Techniques or Measuring Instruments for Research in Pregnancy Prevention Among Adolescents

Development of Techniques to Improve the Quality and Analysis of Data Used to Measure the Effectiveness of Adolescent Pregnancy Programs

Contact:

Ms. Eugenia Eckard
Office of Adolescent Pregnancy Programs
HHH Building, Room 731E
200 Independence Avenue, S. W.
Washington, DC 20201
(202) 245-1181

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

U. S. DEPARTMENT OF TRANSPORTATION

FY 1989 SBIR PROGRAM SOLICITATION

The RELEASE DATE for this SBIR Program
Solicitation is:

February 13, 1989

The CLOSING DATE for the receipt of
PHASE I proposals is:

May 1, 1989

To obtain a copy of this FY 1989 SBIR Solicitation, please
submit a written request to:

DOT SBIR Program Office, DTS-23
U. S. Department of Transportation
Transportation Systems Center
Kendall Square
Cambridge, MA 02142
Attention: Dr. George Kovatch
(617) 494-2051

All other SBIR-related inquiries should also be directed to the
above address.

It is estimated that approximately 10 Phase I awards with an
anticipated potential maximum of 16 awards, valued at up to
\$50,000 each, will be made under this Fiscal Year 1989
solicitation.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR
PROGRAM SOLICITATION FOLLOW:

FEDERAL AVIATION ADMINISTRATION

Air Traffic Control/Flight Services

1. Air Traffic Controller/Automation Communication
2. Application of Artificial Intelligence to the Maintenance Control Center
3. PC-Based Airspace Design and Procedural Development Tool

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

U. S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION (cont'd)

Aircraft Safety

4. Advanced De-Icing Fluids for General Aviation Aircraft
5. Aging Aircraft Corrosion Indicator
6. Improvement of Eddy Current Nondestructive Testing Through Application of Automated Techniques and Artificial Intelligence
7. Certification/Safety Assessment of Flying Qualities and Pilot Workload for Advanced Digital Fly-By-Wire Transport Aircraft
8. Development of Low Heat Release Composites for Aircraft Interiors

Airport Technology

9. Airport Surface Traffic Automation
10. Video Image Processing of Airport Pavement Distress

Aviation Security

11. Explosives Vapor Sampling
12. Innovative Passenger Screening for Weapons
13. Security Checkpoint Optimization
14. Remote Identification Verification System

FEDERAL HIGHWAY ADMINISTRATION

Structures

1. Shear Stress Gage for Hydraulic Laboratory Use

Safety

2. The Use of New Materials for Roadside Safety Hardware

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

U. S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION (cont'd)

Pavements

3. Field Evaluation of Equipment to Verify Steel Placement in Portland Cement Concrete
4. In-Place Permeometer for Open-Graded Drainage Layers
5. Improved Larger Diameter Non-Corrodible Dowel
6. Alternative De-Icing Materials

FEDERAL RAILROAD ADMINISTRATION

Rail Testing

1. Remote Detector Monitoring Device

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Remote Vehicle Identification and Speed Monitoring

1. Application of High Performance Technology to Toll Road Speed Control and Vehicle Performance Monitoring

Safety Belt Applications

2. Safety Belt Buckle Device to Restrain Toddlers and Young Children
3. Devices to Improve the Comfort and Convenience of Safety Belts
4. "Buckle-Up" Education Program for Grammar School and Middle School Science Class Students

Medical Equipment Restraints

5. Crash Protection Accessories to Increase the Safety of Occupants with Special Medical Needs

Truck Driver Warning Systems

6. Vehicle/Object Detection Alongside Heavy Vehicles

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

U. S. DEPARTMENT OF TRANSPORTATION

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (cont'd)

Motorcycle Safety

7. Accessories to Increase the Safety of Motorcyclists

Glare Reduction Systems

8. Development of Headlamp Glare Reduction Devices

UNITED STATES COAST GUARD

Law Enforcement Drug Detection

1. Cocaine/Heroin Drug Detection Technologies
2. Passive Surveillance System for Law Enforcement

Materials

3. Alternate Construction Materials

Major Aid System Management

4. Remote Site Secondary Power Research
5. Remote Site Power by Wave Energy

URBAN MASS TRANSPORTATION ADMINISTRATION

Special Note: No research topics are solicited in FY 1989 by the Urban Mass Transportation Administration

VIII. FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

FY 1989 SBIR PROGRAM SOLICITATION

The RELEASE DATE for this SBIR Program
Solicitation is:

April 14, 1989

The CLOSING DATE for the receipt of
PHASE I proposals is:

June 16, 1989

Name, address and phone number of NASA SBIR contact:

Mr. John A. Glaab
SBIR Program Manager
Code CR
National Aeronautics and Space Administration
Washington, DC 20546
Telephone: (202) 453-8702

NOTE: THOSE WISHING TO OBTAIN COPIES OF THE 89-1 SOLICITATION
MUST WRITE TO THE SBIR PROGRAM OFFICE. TELEPHONIC
REQUESTS CANNOT BE ACCEPTED.

NASA contact point for inquiries is also Mr. Glaab.

Estimated number and average dollar amounts of Phase I awards
from the 89-1 Solicitation is approximately 220 awards in
amounts not to exceed \$50,000.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR
PHASE I PROGRAM SOLICITATION FOLLOW:

1. Aeronautical Propulsion and Power
2. Aerodynamics and Acoustics
3. Aircraft Systems, Subsystems, and Operations
4. Materials and Structures
5. Teleoperators and Robotics
6. Computer Sciences and Applications

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

7. Information Systems and Data Handling
8. Instrumentation and Sensors
9. Spacecraft Systems and Subsystems
10. Space Power
11. Space Propulsion
12. Human Habitability and Biology In Space
13. Quality Assurance, Safety and Check-Out for Ground and Space Operations
14. Satellite and Space Systems Communications
15. Materials Processing, Micro-Gravity, and Commercial Applications In Space

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

NATIONAL SCIENCE FOUNDATION

FY 1989 SBIR PROGRAM SOLICITATION

The RELEASE DATE for this SBIR Program
Solicitation is:

April 3, 1989

The CLOSING DATE for the receipt of
PHASE I proposals is:

June 19, 1989

Copies of the SBIR Solicitation may be obtained from:

National Science Foundation
Forms & Publications Office
1800 G St., N. W., Room 232
Washington, D. C. 20550
Telephone: (202) 357-7861

SBIR-related inquiries may be addressed to:

Roland Tibbetts or Ritchie Coryell
Program Managers, SBIR
National Science Foundation
1800 G St., N. W., Room 1250
Washington, D. C. 20550
Telephone: (202) 357-7527

The National Science Foundation anticipates making approximately
160 Phase I awards in amounts not to exceed \$50,000.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR
PHASE I PROGRAM SOLICITATION FOLLOW:

1. Physics
2. Chemistry
3. Materials Research
4. Mathematical Sciences
5. Astronomical Sciences

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE

NATIONAL SCIENCE FOUNDATION

6. Atmospheric Sciences
7. Earth Sciences
8. Ocean Sciences
9. Polar Sciences and Operations
10. Cellular Biosciences
11. Molecular Biosciences
12. Biotic Systems and Resources
13. Behavioral and Neural Sciences
14. Social and Economic Sciences
15. Instrumentation and Resources
16. Advanced Scientific Computing
17. Computer and Computation Research
18. Networking and Communications Research and Infrastructure
19. Microelectronic Information Processing Systems
20. Information, Robotics and Intelligent Systems
21. Electrical, Communications and Systems Engineering
22. Design, Manufacturing and Computer Integrated Engineering
23. Chemical, Biochemical and Thermal Engineering
24. Mechanics, Structures and Materials Engineering
25. Emerging Engineering Technologies
26. Critical Engineering Systems

IX. HOW TO OBTAIN THE SBIR PROPOSAL PREPARATION HANDBOOK

Copies of this publication may be obtained from the following regional offices of the U. S. Small Business Administration.

- | | |
|-----------------------------------|--|
| <u>REGION I</u>
Boston | For Maine, New Hampshire, Vermont,
Massachusetts, Rhode Island and
Connecticut
<u>60 Batterymarch, 10th Floor</u>
<u>Boston, MA 02110</u> |
| <u>REGION II</u>
New York | For New York, New Jersey, Puerto Rico
and the Virgin Islands
<u>26 Federal Plaza</u>
<u>New York, NY 10278</u> |
| <u>REGION III</u>
Philadelphia | For Pennsylvania, Delaware, Maryland,
Virginia, West Virginia and
Washington, DC
<u>Allendale Square</u>
<u>475 Allendale Road</u>
<u>King of Prussia, PA 19406</u> |
| <u>REGION IV</u>
Atlanta | For North Carolina, South Carolina,
Georgia, Florida, Mississippi,
Alabama, Tennessee and Kentucky
<u>1375 Peachtree Street, N. E.</u>
<u>Atlanta, GA 30367-8102</u> |
| <u>REGION V</u>
Chicago | For Ohio, Indiana, Michigan, Illinois,
Wisconsin and Minnesota
<u>230 South Dearborn Street, Room 510</u>
<u>Chicago, IL 60604-1593</u> |
| <u>REGION VI</u>
Dallas | For Louisiana, Arkansas, Texas,
Oklahoma and New Mexico
<u>8625 King George Drive, Bldg., "C"</u>
<u>Dallas, TX 75235-3391</u> |
| <u>REGION VII</u>
Kansas City | For Missouri, Kansas, Iowa and
Nebraska
<u>911 Walnut Street, 13th Floor</u>
<u>Kansas City, MO 64106</u> |

HOW TO OBTAIN THE SBIR PROPOSAL PREPARATION HANDBOOK

REGION VIII
Denver For North Dakota, South Dakota,
Colorado, Wyoming, Utah and Montana
999 18th Street, Suite 701
Denver, CO 80202

REGION IX
San Francisco For California, Arizona, Nevada,
Hawaii, Guam
450 Golden Gate Avenue - Box 36044
San Francisco, CA 94102

REGION X
Seattle For Oregon, Washington, Idaho and
Alaska
2615 4th Avenue, Room 440
Seattle, WA 98121

Please check the appropriate telephone directory
under "U. S. Government" for telephone numbers.

X. SBA'S PROCUREMENT AUTOMATED SOURCE SYSTEM (PASS)

In addition, SBA's Office of Procurement and Technical Assistance has a Procurement Automated Source System (PASS) that maintains capability profiles of small businesses interested in Federal Government procurement opportunities. This system is used by Federal agencies and major prime contractors to identify small concerns with capabilities needed by the agencies or prime contractors. Being included in PASS could potentially lead to a contract or subcontract. For further information on the PASS program, please contact any one of the SBA Regional Offices listed on page 28 of this publication.

XI. PARTICIPATING FEDERAL AGENCY SBIR REPRESENTATIVES

DEPARTMENT OF AGRICULTURE

Dr. Charles F. Cleland
SBIR Coordinator
USDA/CSRS/CRGO/SBIR
Room 323-J, Aerospace Bldg.
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(202) 447-7002

DEPARTMENT OF COMMERCE

Mr. James P. Maruca
Director, Office of Small and
Disadvantaged Business Utilization
U. S. Department of Commerce
14th and Constitution Avenue, N. W.
HCHB, Room 6411
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Mr. Edward V. Tiernan
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DEPARTMENT OF DEFENSE

Mr. Robert Wrenn
SBIR Coordinator
OSD/SADBU
U. S. Department of Defense
The Pentagon - Room 2A340
Washington, D. C. 20301-3061
(202) 697-1481

PARTICIPATING AGENCY SBIR REPRESENTATIVES

DEPARTMENT OF EDUCATION

Mr. John Christensen
SBIR Program Coordinator
U. S. Department of Education
Room 602B
555 New Jersey Avenue, N. W.
Washington, D. C. 20208
(202) 357-6065

DEPARTMENT OF ENERGY

Ms. Gerry Washington
SBIR Spokesperson - ER-16
c/o SBIR Program Manager
U. S. Department of Energy
Washington, D. C. 20545
(301) 353-5867

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Mr. Richard Clinkscales
Director, Office of Small and Disadvantaged
Business Utilization
Office of the Secretary
U. S. Department of Health and Human Services
Washington, D. C. 20201
(202) 245-7300

DEPARTMENT OF TRANSPORTATION

Dr. George Kovatch
Chief, University Research & Technology
Innovation Office (DTS-23)
U. S. Department of Transportation
Transportation Systems Center
Kendall Square
Cambridge, MA 02142
(617) 494-2051

PARTICIPATING AGENCY SBIR REPRESENTATIVES

ENVIRONMENTAL PROTECTION AGENCY

Mr. Walter H. Preston
SBIR Program Manager
Research Grants Staff (RD-675)
Office of Research and Development
Environmental Protection Agency
401 M Street, S.W.
Washington, D. C. 20460
(202) 382-7445

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Mr. Harry Johnson
Director, SBIR Office - Code CR
National Aeronautics and Space Administration
600 Independence Avenue, S. W.
Washington, D. C. 20546
(202) 453-8702

NATIONAL SCIENCE FOUNDATION

Mr. Roland Tibbetts
Mr. Ritchie Coryell
SBIR Program Managers
National Science Foundation
1800 G Street, N.W.
Washington, D. C. 20550
(202) 357-9666

NUCLEAR REGULATORY COMMISSION

Mr. William E. Forehand
SBIR Program Representative
Program Management, Policy Development
and Analysis Staff
Office of Nuclear Regulatory Research
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
(301) 492-3625

XII. UPCOMING SBIR CONFERENCES AND/OR SEMINARS

ALL INQUIRIES CONCERNING THESE CONFERENCES SHOULD BE DIRECTED TO THE CONTACT POINTS CITED BELOW.

NOTE: Only SBIR conferences/seminars sponsored by the SBIR participating agencies or SBIR conferences/seminars sponsored or co-sponsored by the U. S. Small Business Administration will be considered for publication in the SBIR Pre-Solicitation Announcement.

FEDERAL HIGH TECH '90

The National Science Foundation/Department of Defense

INTERAGENCY CONFERENCES

ON FEDERAL R&D

FOR

HIGH TECH FIRMS

WITH

500 OR FEWER EMPLOYEES

LOS ANGELES, CA
October 10-12, 1989
Los Angeles Biltmore Hotel

WASHINGTON, DC
November 13-15, 1989
Sheraton Premier Hotel
Tyson's Corner, VA

For further information on these conferences, please call:

Federal High Tech Hot-Line -- (703) 941-4490

UPCOMING SBIR CONFERENCES AND/OR SEMINARS

EIGHTH ANNUAL CONFERENCE ON FEDERAL, STATE AND INDUSTRIAL
RESEARCH DEVELOPMENT OPPORTUNITIES IN MICHIGAN

DATE : Tuesday, April 25, 1989

LOCATION: Sheraton Oaks Hotel
Novi, Michigan
I-96 and Novi Road (Exit #162)

FEE: \$60 for the first registration, \$40 for all
additional registrations

REGISTRATION: MERRA Small Business Development Center
328 Executive Plaza
1200 6th Street
Detroit, MI 48226

Contact: Mark Clevey
MERRA Vice President
(313) 964-5030

SBA CONTACT: Allen P. Cook, ADD/BD
U. S. Small Business Administration
515 McNamara Building
477 Michigan Avenue
Detroit, MI 48226
(313) 226-6075

UPCOMING SBIR CONFERENCES AND/OR SEMINARS

ILLINOIS SMALL BUSINESS INNOVATION RESEARCH SEMINAR

DATE: May 12, 1989

LOCATION: 219 S. Dearborn Street, Room 1220
Dirksen Federal Building
Chicago, IL

ATTENDEE FEE: \$50.00

AGENDA: How Does The SBIR Program Work For You
The Experience of an SBIR Application
The Support for Your SBIR Applications
Funding Programs to Leverage Your SBIR Funds

REGISTRATION: The Support Center of Chicago
166 W. Washington, 5th Floor
Chicago, IL 60602

Contact: Totsie Cooper
(312) 606-1530

SBA CONTACT: Arnold Ochakoff
U. S. Small Business Administration
219 S. Dearborn St., Room 437
Chicago, Illinois 60604
(312) 353-5427

UPCOMING SBIR CONFERENCES AND/OR SEMINARS

1989 WISCONSIN SMALL BUSINESS INNOVATION
AND RESEARCH CONFERENCE

DATE: JUNE 21, 1989

TIME: 8:30 a.m. to 4:30 p.m.

LOCATION: PFISTER HOTEL
424 E. Wisconsin Avenue
Milwaukee, WI 53202

REGISTRATION: For detailed information on this conference contact:

State of Wisconsin Department of Development
123 W. Washington Avenue
P. O. Box 7970
Madison, WI 53707

Caroline Garber
Director, SBIR Program
(608) 267-9383

SBA CONTACT: Eric Meissner
U. S. Small Business Administration
Room 213
212 E. Washington Avenue
Madison, WI 53703
(608) 264-5518

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